



# the Ring

University of Victoria

Volume 12, Number 14, May 10, 1985

## Mistress of UVic ceremonies honored



Kennedy

Friends of Prof. Betty Kennedy (Mathematics), chairman of the Ceremonies Committee, attended a reception in her honor May 9 at the Faculty Club.

Kennedy, who is taking early retirement from UVic at the end of June, has made "significant contributions" to the university, says President Dr. Howard Petch.

She first joined the faculty of Victoria College in 1957 after teaching mathematics for 13 years at the University of British Columbia. While teaching a whole range of subjects in mathematics, Kennedy has taken on a number of administrative tasks and served as special assistant to four UVic presidents.

She chaired the committee that planned the Commons Block and prepared reports during the planning stages for the Schools of Child Care, Nursing and Social Work.

Kennedy was on the Board of Trustees for the UVic pension plan for the first two years of its existence and for the past eight years has been chairman of the board of pension trustees.

She was the university's representative on the former advisory committee to the Ministry of Education for five years and has been involved in volunteer work with the Girl Guides, the Family Children's Service, the Community Welfare Council and as chairman of the Regional Hospital Planning Commission.

She organized the Canadian Mathematics Olympiad in the mid-60s and operated the competition for top students in every province for the first three years of its existence.

It is as chairman of the Ceremonies Committee for the past eight years that Kennedy has supervised the growth of official ceremonies at UVic.

She organized the university participation in the visit of Queen Elizabeth and Prince Phillip to UVic in 1983 and travelled with a UVic contingent to an official Convocation ceremony in Shanghai in 1981 when an honorary degree was presented to Madame Soong Ching Ling, one of China's most revered citizens.

"This university has been very good to me in that I've been given a lot of interesting things to do," she says.

## Conquer Everest by climbing stairs

Gord Miller, fitness programmer for UVic's Athletic and Recreational Services, is organizing a campaign for National Physical Activity Week in which faculty, students and staff on campus will attempt to scale "Mount Everest".

Miller is promoting an inter-departmental competition in stair-climbing May 25 to June 2.

Anyone working above the ground floor can participate by taking the stairs twice a day during the five working days of National Physical Activity Week.

A team of up to 10 people can climb "Mount Everest" by climbing 900 flights of stairs. Miller has a chart that shows that 10 flights of stairs equals 100 metres of climbing. Mount Everest is 8,788 metres high.

Miller plans to appoint "Sherpas" to organize departmental teams and encourage the use of stairs as a healthy exercise. Those with no stairs to climb at work can be part of the "base camp support team" and assist in climbing the mountain by walking or wheeling for 10 minutes a day.

Miller will have a huge Everest poster to chart the progress of departments. For more information on the stair-climbing competition and other events on campus and in the community during National Physical Activity Week, contact Miller at Local 8406.

## Hang up

A man, falsely claiming to be conducting UVic research on sexual harassment, has been making obscene telephone calls to women on campus and in the community.

The calls have nothing to do with any research at UVic.

The caller is claiming that his "research" has been approved by UVic's committee on research involving human subjects. He then begins asking questions. UVic has such a committee that

Dr. John Celona, head of composition at the School of Music, has been awarded first prize of 5,000 French Francs in the 1985 13th International Electroacoustic Music Competition, in Bourges France, for his four-channel, computer synthesized composition, "Possible Orchestras (at the 21st Harmonic)."

The Bourges competition is recognized as the most prominent international competition in the area of electronic/computer music and is produced and organized by the Groupe de Musique Experimental de Bourges (France).

Celona's composition will be broadcast on 21 radio networks from 19 countries and performed in concert in nine countries. The winning composition was

## Electrical Engineering holds open house

The Department of Electrical Engineering is holding an open house May 15 from 4 to 7 p.m. in Room 159 of the Begbie Building.

While the open house is aimed primarily at the hundreds of high school students who have expressed interest in UVic's engineering program, members of the campus community and the public are also welcome to tour the facilities and examine the exhibits.

Dr. Andreas Antoniou, chairman of the department, will provide an illustrated talk at 4:30 p.m. This will be followed by a tour of the Faculty of Engineering facilities which include computer facilities which allow faculty and students to develop software engineering applications in VLSI circuit design, CAD/CAM robotics, digital signal processing and communications.

Exhibits include an Engineering Co-op display, computer-aided drafting, design and computer-aided manufacturing, control systems and robotics, digital signal and image processing, microelectronics, engineering graphics, digital communications and the science and Engineering Complex.

## Social work grads popular in Alberta

The Alberta Social Services and Community Health Department is impressed with this year's graduating class at UVic's School of Social Work.

The department recently completed a wide-ranging recruitment for employees, visiting schools of social work from Nova Scotia to British Columbia, and the proportion of UVic applicants hired was the highest in the country.

Of 13 UVic students interviewed, nine were offered jobs with the Alberta provincial department. According to Les Danyluk of the Personnel Division of the department who interviewed the UVic applicants, "our feeling during the interview is that the students were highly motivated, very goal oriented and familiar with the realities of employment."

John Cossom, director of the School of Social Work, feels the results speak well of the UVic program and curriculum. "It is good to see this kind of result, especially at a time when universities are being challenged with respect to the quality and relevance of their programs and the employability of their graduates."

# Lowly jellyfish reveals a secret for scientists



Mackie: discovery points researchers in new direction

A discovery, revealing a property of nerve behavior which had not been known to exist, has been made in a joint research project by neurophysiologist Dr. George Mackie of UVic's Biology Department and Dr. R.W. Meech of the Medical School at Bristol University.

Mackie and Meech have discovered a single nerve in a jellyfish called *Aglantha digitale* which can transmit two sorts of signals. According to the prestigious British scientific journal *Nature*, "this is the first time that two types of impulse propagation have been reported in a single nerve fibre."

In a report in *The Times* of London, the discovery has been hailed as a breakthrough which could point researchers in new directions.

Mackie and Meech showed that the

*Aglantha* uses the same nerve tissue to evoke either fast or slow swimming. One contraction during fast swimming takes the animal five times as far as in slow swimming.

"The significant point of our findings is that single nerve fibres can transmit two different sorts of signals," explained Mackie in a recent interview with *The Ring*.

"It's not particularly significant that it's a jellyfish that does it. Jellyfish are rather far off the beaten track for most neurobiologists anyway. But now that it has been shown that nerves can independently conduct two sorts of message, other researchers will be looking at their own preparations with new eyes."

"There is no reason, in principle, why this sort of thing shouldn't be going on in

our own brains. In fact, there is already some tentative indication that something like this may be going on in the mammalian thalamus, a region involved in relaying messages up to the higher brain centres—but no one has yet come out and said as much."

If some nerves do double duty, transmitting two different sorts of signals, "this would greatly increase the amount of information that the nervous system can handle," said Mackie.

"It would be surprising, now that we know it can be done, if the *Aglantha* example turned out to be an isolated instance. Right now we just have to wait and see. Other researchers may start finding the same thing going on in their animals, or they may not."

Mackie explained that nerves transmit electrical signals or impulses from one part of the body to another. For example, if you touch or prick your skin, this sets off a burst of impulses in sensory nerves in the skin which go to the brain. When they arrive in the brain, the impulses are interpreted in terms of the sort of stimuli that produce them. A strong prick will set off more impulses in more nerves than a weak one, so the brain knows it was a strong prick.

The time intervals between the impulses can vary a great deal and the brain must also take this into account.

"It's a sort of digital code but the digits themselves are the nerve impulses and they don't vary. What the brain has to work with are varying patterns and numbers of impulses coming in from various parts of the body and somehow it is able to interpret these in terms of sensations like touch, pain, sight, cold, vibration, etc., depending on where they come from and how intense they are and how the patterns are coded in the various input pathways."

Nerve impulses are due to the flow of charged particles (ions) across the mem-

brane which encloses the nerve cell. Normally it is sodium ions which carry the currents for nerve impulses and *Aglantha* uses sodium which travels quickly to trigger a powerful swimming movement to escape from a predator. *Aglantha* uses calcium which travels more slowly causing a weaker muscle contraction when swimming normally.

Why did Mackie and Meech pick the lowly jellyfish to conduct their research?

"I've always been interested in primitive animals because they tell us about origins and how things evolved," said Mackie. "Jellyfish belong to the most humble group of animals to have a nervous system. We can learn lessons about nervous organizations by looking at simple systems and these lessons may apply to more complex systems which are more difficult to analyse without such clues."

Advantages to studying *Aglantha* include the fact that it is common in the sea around Victoria, and it has some very large nerve cells which are easy to work with. "They are so transparent that we can see the nerves and attach electrodes to them without having to do long and complicated dissections."

Mackie said he has seen *Aglantha* from the submersible Pisces IV in Saanich Inlet where huge numbers of them live year round about 300 feet below the surface. "Sometimes they come to the surface and we catch them off a dock."

Mackie and Meech worked on the research project in the Elliott Building on campus with animals collected at the Oak Bay Marina and also worked at the marine station at Friday Harbour in Washington State.

They are continuing their research this summer. "We want to know more about the mechanism involved, how the channels operate to permit sodium ions to get in through the cell membrane on some occasions and calcium to get in on other occasions."

## Visual Arts trio win scholarships

Three graduating students in Visual Arts at UVic have won scholarships to continue their studies in Canada and the United States.

Louis Keene, an honors student in sculpture, has won a scholarship to study architecture at the Massachusetts Institute of Technology (MIT). The competition for entry into the architecture program at MIT is at a very high level and to have a UVic student succeed is "a coup" for the university according to a Faculty of Fine Arts spokesman.

Kate Scoones has been awarded a fellowship to attend the winter session at the Banff Centre of Fine Arts in 1985-86 and Dan Campbell has been awarded a graduate fellowship to attend the University of Saskatchewan.

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## Rugby Vikings gain B.C. finals

For the first time since 1971, the UVic rugby Vikings are in the British Columbia first division finals.

The Vikings defeated the Fraser Valley champion club Pocomo from Port Coquitlam 16-10 in a semi-final match played May 4 at Centennial Stadium before about 300 fans.

Mark Wyatt, the Vikings' outstanding kicker, counted two drop goals and two penalty kicks to lead the university team to victory. For Pocomo, this was only their second loss in 19 contests, both losses coming at the hands of the Vikings.

The Vikings will face the University of British Columbia Old Boys May 18 at Vancouver's Brockton Oval for the provincial championship and the Rounsfel Cup.

Led by co-coaches Dr. David Docherty, director of UVic's School of Physical Education and Dr. Bruce Howe (Physical Education), former national rugby team coach, the Vikings will be missing two or three players for the finals, including stand-off-half Wyatt who will be in Australia, touring with a Canadian rep team.

Docherty points out that UBC Old Boys will also be without three or four of their top players who are also on the Canadian team.

For the Vikings, the trip to the finals comes after an undistinguished early season in Vancouver Island Rugby Union play. Docherty points out that the Vikings always have a fairly large turnover in team personnel, and it takes considerable time for the 15-man starting team to form a cohesive unit. "It did

seem to take longer this year, but we finished strongly in second place and won convincingly in the Island semi-finals and finals," he said.

## Students dislike differential fees

The Alma Mater Society (AMS) and the Foreign Students Association have presented briefs to the Board of Governors (BOG) protesting the implementation of differential fees for visa students at UVic.

In February of 1984, the BOG approved differential fees for visa students with these students to pay 1.75 times the fees for Canadian students in 1984-85 and 2.5 times the fees for Canadian students in 1985-86.

AMS President Rosemin Keshvani, in a brief to the BOG, said the AMS has adopted a student declaration of rights which states "the right of all students accepted for study in Canada regardless of citizenship to receive an education in Canada without being subject to differential fees".

The AMS argues that any extra revenue generated by a fee differential will be minimal and that the benefit derived will not outweigh the harm caused to the visa student.

In the brief, Keshvani called on the BOG to publicly justify the need for visa fee differentials.

## Senate seeks BOG move on procedures for dean

The UVic Senate has requested the Board of Governors (BOG) to approve revised procedures for the appointment of a dean of education, as approved by the Senate in April of 1983.

Dr. Richard Powers (Political Science), who introduced the request to the Senate at the May 1 meeting, said two years of inaction by the BOG on the matter indicated "short-sightedness" because of the atmosphere it created.

President Dr. Howard Petch told the Senate there has been "some uneasiness" among BOG members about some of the procedures for appointments. He pointed out that the BOG had asked him to approach the Senate about a joint review of the procedures which he had done on two occasions at which Senate had not responded.

The major revision approved by the Senate in the procedures for appointment of the dean of education was a ratification vote among faculty members for any candidate for dean before that candidate is presented to the BOG for approval.

In asking the Senate to send the request for action to the BOG, Powers referred to a report from Dr. I.D. Pal, chairman of an ad hoc committee appointed by the Senate to study the University Act. Pal, in a report presented to the March meeting of the Senate, said he found it "puzzling and very confusing" that the BOG had not acted on the procedures approved by Senate and the Faculty of Education.

# UVic honors businessman, ecologist, economist and poet



McTaggart-Cowan: distinguished conservationist

During Spring Convocation Ceremonies at UVic May 31 and June 1, honorary degrees will be conferred upon an outstanding poet and artist, ecologist and conservationist, teacher and scholar in economics, and businessman with a distinguished record of service to the community.

The opening ceremony May 31 will also be the occasion of the Installation of Dr. William Carleton Gibson as the new Chancellor of UVic. The Lieutenant-Governor of British Columbia, the Honourable Robert G. Rogers, will be in attendance to install the new chancellor at 10 a.m. on May 31, in the University Centre Auditorium.

The four honorary degrees will be conferred upon former UVic Chancellor Dr. Ian McTaggart-Cowan, poet P.K. Page, economist Dr. Richard George Lipsey, and longtime supporter of the Victoria community and its university Justin Victor Harbord.

Graduate and undergraduate degrees will be awarded to more than 1,360 students during four ceremonies in the University Centre Auditorium, which will be held at 10 a.m. and 2:30 p.m. both May 31 and June 1.

The degree of Honorary Doctor of Science is being awarded to McTaggart-Cowan, who served as the Chancellor of UVic from 1979 to 1984, at 10 a.m. May 31.



Page: poet and artist

An environmentalist long before the term was invented, McTaggart-Cowan contributed to an understanding of man's need to better adapt to the environment in order to survive which will serve several generations to come.

He was educated at the University of British Columbia and the University of California majoring in wildlife ecology, and progressed from being a biologist at the Provincial Museum, to professor, then head of the Zoology Department and later Dean of Graduate Studies at UBC.

As a source of wisdom and master-lecturer, McTaggart-Cowan was particularly admired by his graduate students and students from other classes who routinely filled the aisles to hear his lectures.

Among his numerous contributions to wildlife ecology are more than 250 publications and 65 half-hour television programs on biology. He has served on many provincial, national and international boards and advisory councils, and earned numerous awards. They include the Leopold Medal of the Wildlife Society, Canadian Centennial Medal, Officer of the Order of Canada, Queen Elizabeth Silver Jubilee Medal, honorary degrees of Doctor of Laws from the Universities of Alberta and Simon Fraser, honorary Doctor of Environmental Studies from the University of Waterloo and honorary Doctor of Science from UBC.

The degree of Honorary Doctor of Letters will be awarded to Canadian poet and Officer of the Order of Canada P.K. Page at 2:30 p.m. May 31.

Now one of Canada's most esteemed poets, Page came to Canada from England as a young child, and grew up in Alberta. By the early 1940s she was publishing poems in Montreal and was one of a small group of writers dramatically altering the shape of poetry in this country.

In 1954 her book of poems *The Metal and the Flower* won the Governor General's Award for Poetry.

While her husband, W. Arthur Irwin served as Canadian ambassador to Australia, Brazil and Mexico between 1953 and 1964, Page turned her attention to painting and drawing and under the name P.K. Irwin produced works of visual intricacy and distinction.

She settled with her husband in Victoria in 1964 and has since greatly contributed to the cultural life of the city.

In 1967, Page produced *Cry Ararat*, a book of poems and drawings, and in 1973 a novel she had published under a pseudonym in 1944 was reissued, together with several stories, under the title *The Sun and the Moon and Other Fictions*. She produced more works including in 1974 *Poems Selected an New*, in 1980 an anthology of Canadian short poems titled *To Say the Least*, and in 1981 *Evening Dance of the Grey Flies*.

The degree of Honorary Doctor of Laws will be conferred upon Dr. Richard Lipsey, a Fellow of the Royal Society of Canada and Sir Edward Peacock Professor of Economics at Queen's University, at 10 a.m. June 1.

Lipsey's enormous contributions to the fields of economics are recognized worldwide. He graduated from Oak Bay High School in Victoria in 1947 and after receiving a first class honours B.A. at UBC and MA at the University of Toronto, he moved to the London School of Economics where he obtained his Ph.D. and became one of the youngest men at the School ever to hold a professorial chair.

In 1963, he and three other academics formed the nucleus around which the new university of Essex was formed, and under Lipsey's leadership the Department of Economics at Essex developed into one of the best in the United Kingdom.

Considered the most influential economist in Canada, Lipsey is one of the most respected in the world and has been a visiting professor at most of the leading universities in North America, helping to develop the talents of a large number of younger economists.

He has authored the dominant principles textbook, which has been translated in several foreign languages and gone through seven editions and sales of over one million in both the United Kingdom and in the United States, and is in its fifth edition in Canada.

Lipsey is a past president of the Canadian Economic Association and one of few Canadians to become a Fellow of the Econometric Society.

The degree of Honorary Doctor of Laws will be conferred upon Justin Harbord, who has a remarkable record of 25 years of continuous service to UVic, at 2:30 p.m. on June 1.

Harbord, who founded an insurance agency carrying his name in Victoria after service overseas in World War II, has been elected both President of the Insurance Agents Association of British Columbia, and President of the Canadian Federation of Insu-



Lipsey: influential economist

rance Agents and Brokers Association. The respect he has earned from his business colleagues has also been shown by his election to Honorary Life Membership in the British Columbia Insurance Agents Association.

Harbord served as co-chairman of the successful \$2.5 million building fund campaign for Victoria College in 1959 and 1960, and for the next four years on the University Development Board. This Board acquired the lands for the present Gordon Head Campus, introduced the original master plan for the physical development of the campus, and raised the building funds and supervised the construction of the first university buildings.

He subsequently served for 20 years, five as chairman, on the Board of the University of Victoria Foundation, and on the UVic Board of Governors from 1969 to 1972.

In service to the community, Harbord has been a board member and President of the Queen Alexandra Solarium for Crippled Children, President of the Victoria Community Chest, and Chairman of three separate United Way Campaigns.

In addition to his strong support of UVic and the community, Harbord has served as a member and patron of the Building Campaign Committee of the Lester B. Pearson College of the Pacific.



Harbord: 25 years of continuous service to UVic

## Research Grants

**Dr. Marcus Bell** (Biology) has received a grant from the Science Council of British Columbia for the study of certain native plants which may assist the process of restoring land from which coal has been mined. This could lead to a cheaper method of reclaiming land after mining has been completed.

**Dr. Ernest Chang** (Computer Science) has been awarded the second instalment of a grant from the Medical Research Council to establish a centre in Canada for research and development of computer applications in medical reasoning. The research is to be collaborative between experts in medicine and computer science.

**Dr. Michael Corcoran** (Psychology) has received a grant from the Medical Research Council for continued studies of experimental epilepsy.

**Dr. Esther Straus** (Psychology) has received a grant from the Medical Research Council to continue studies of cerebral organization in neurological populations.

**Dr. Trevor Trust** (Biochemistry and Microbiology) has received a grant from the Medical Research Council to continue studies of bacterial surface components, particularly those components involved in the attachment of bacterial cells to human cells and those components specifically recognized by the human immune system. Bacteria being studied include *Salmonella* and *Campylobacter* which together are responsible for by far the majority of cases of human bacterial enteritis.

**Dr. Nancy Sherwood** (Biology) has received a grant from the Medical Research Council to continue studies of luteinizing hormone-releasing hormone (LHRH). This hormone synthesized in the brain, is essential for reproduction. Studies focus on the structure of LHRH in the lamprey, one of the most ancient living vertebrates.

**Dr. Michael Ashwood-Smith** (Biology) has received a grant from the Medical Research Council to continue studies of changes caused by manmade and naturally occurring chemicals, called photosensitizers, in both the nature and quantity of sunlight induced biological effects. There are suggestions that some changes may produce more active and harmful (carcinogenic) molecules than those originally present.

**Dr. Trevor Trust** has received a grant from the B.C. Health Care Research Foundation to continue studies of two bacterial species able to produce disease in humans.

**Dr. James Buckley** (Biochemistry and Microbiology) has received a grant from the B.C. Health Care Research Foundation to study the cloning and sequencing of an extracellular protein toxin.

**Dr. Donald Read** (Psychology) has received a grant from the B.C. Health Care Research Foundation to assess the reliability and validity of a new battery of tests of intellectual and memory function, developed by Read for use in the neuropsychological assessment of people 50 years of age or older.

**Dr. Robert Olfson** (Biochemistry and Microbiology) has received a grant from the B.C. Health Care Research Foundation to study the molecular basis of immunosuppression. An understanding of this basis is of fundamental significance in management of an array of serious diseases in man, including leprosy, leishmaniasis and trypanosomiasis.

**Dr. Brian Harvey** (Biology), with Chris Denny of Baltic Engineering Ltd. in Victoria, has received a grant from the Science Council of B.C. for the development and testing of a tranquilizing dart and injector for aquatic animals. Such a tranquilizing dart would reduce stress on aquatic animals during handling.

## Outdoor camps set for youngsters

Anyone with children aged 10 to 15 can give their youngsters an opportunity this summer to develop a variety of outdoor skills and have a lot of fun in the process.

UVic's Athletics and Recreation Services is presenting *Outdoor Adventure '85*, two-week outdoor recreation camps for boys and girls.

From July 2 to July 12 the camp is for those aged 10 to 12 while those 13 to 15 can participate from July 29 to August 13.

Chuck Francis, co-ordinator of UVic's Outdoor Recreation Resource Centre, explains that youngsters can choose a land-based or a water-based camp. All camps operate on a day-camp basis, from 9:30 a.m. to 3:30 p.m. Monday to Friday, with the exception of camping trips to Cowichan Lake.

Youngsters will be taught the basic skills of orienteering, rock climbing and rappelling, camping, hiking, swimming, first aid and canoeing, at the land-based camp, with a four-day camping trip as the climax. For the water-based camp, swimming and a Red Cross small craft safety survival course have been organized. There will be three days of sailing, windsurfing, canoeing and a three-day camping trip.

"What we are attempting to do is to provide the boys and girls with a lot of skills, with highly qualified instructors on staff for these camps," says Francis.

Registration for UVic activity card holders opens June 3 with others registering beginning June 10.

For more information on the camps, call Francis at 721-8410 or 721-8406.

## Chemist earns prestigious degree

**Dr. Walter Balfour** (Chemistry) has earned a prestigious Doctor of Science degree from his alma mater, the University of Aberdeen.

The degree is awarded by Aberdeen to a professor, previously associated with the institution, whose research work over a period of years is "a record of original research of high distinction in pure or applied science".

Balfour, who received his undergraduate degree from Aberdeen in 1963, presented for his thesis a 400-page record of his research over 15 years on molecular structure and spectroscopic problems.

That record was subjected to external review by international experts in the field before Aberdeen decided to award the D.Sc. to Balfour.

Balfour, who received his Ph.D. from McMaster University in 1967, worked for two years with Dr. Gerhard Herzberg, the 1971 Nobel Prize winter, at the National Research Council in Ottawa, before joining the faculty at UVic in 1969.

A physical chemist, Balfour's research is aided by grants from the Natural Sciences and Engineering Research Council.

The degree from Aberdeen will be conferred at the Convocation at Aberdeen in July.

## Ringers



**Daryl Spencer**, who has just completed his third year in Slavonic Studies, left for Alaska at the end of April to work for the summer on a Russian fishing ship. Spencer is working for Marine Resources, a company operated by Russia and the United States and based in Seattle. The ship on which he will work as an interpreter and company representative is involved in the Pacific whiting (hake) fishery off the west coast. Spencer feels the summer job is a good opportunity to earn money to continue his university education and to improve his fluency in Russian at the same time. "I took the intensive

summer course in Russian at Dyuny two years ago and found it invaluable in improving my language skills in Russian," he says. Spencer will spend at least 90 days at sea with close to 100 Russian sailors and will act as interpreter between the Russian ship and the Canadian and American catcher boats that sell the hake to the Russians. "Classroom studies are fine but you can't beat the experience of speaking the language in a practical situation," says Spencer. Another UVic Slavonic student, **Scott Fraser**, will also work on a Russian ship this summer and several other students are on the company's waiting list.

Food Services at UVic is presenting a Mexican Fiesta fashion show and buffet May 17 and 21 in the Gold Room. Events include a Mexican fashion show, live entertainment, Mexican food and drinks and door prizes. The Gold Room opens at 11:30 a.m. with the show beginning at 12:30 p.m. Food Services warns people to book prior to the event as the room can accommodate only 50 people. Further information and reservations can be obtained by calling Local 8441 between 11:30 a.m. and 1:30 p.m.

**Dr. Ralph W. Hoenemann** of Washington, D.C., a consulting economist with the World Bank, will speak on "China's Economic Reforms" at a free public seminar May 21 at UVic. The seminar, sponsored by the Economics Department, begins at 3:30 p.m. in Room B145 of the Cornett Building.

**Dr. Frank Robinson** (Chemistry) has been elected a Fellow of the Chemical Institute of Canada.

## Calendar

### Friday, May 10th.

Maltwood Art Museum and Gallery. *Blue and White*—Chinese Porcelain, 1650-1900. Continues until May 21. Gallery hours are 10 a.m. to 4 p.m. Monday to Friday, 12 noon to 4 p.m. Sunday, and during evening events at the University Centre Auditorium. McPherson Library Gallery. *Acrylics*—Tom Rigby. Continues until May 17.

10:30 a.m. Seminar presented by the Dept. of Electrical Engineering. Dr. M.A. Bayoumi, Dept. of Electrical Engineering, University of Windsor, will speak on "VLSI Implementation of Residue Number System Architectures." LHUT 72.

### Saturday, May 11th.

8:00 p.m. *Power Play* performed as part of the *Women and Peace* conference. Tickets available at the door. University Centre Auditorium.

### Sunday, May 12th.

MOTHER'S DAY. May-August and May-June classes begin.

### Tuesday, May 14th.

10:30 a.m. Seminar presented by the Dept. of Electrical Engineering. Dr. S.A. Mirbod, Electrical & Computer Engineering Department, Louisiana State University, Baton Rouge, will speak on "Microprocessor-Based Optimum Control for Four-Quadrant Chopper." LHUT 72.

### Wednesday, May 15th.

10:00 a.m. Faculty of Graduate Studies meets. CORN B108.

### Thursday, May 16th.

6:30 p.m. Alumni Association Annual General Meeting. Faculty Club. For tickets and information, contact the Alumni Association (721-7635).

### Friday, May 17th.

10:00 a.m. Faculty of Law meets. BEGB 205. 11:00 a.m. Faculty of Education meets. MACL D288.

12:30 p.m. Faculty of Human & Social Development meets. CORN B145. 2:30 p.m. Faculty of Fine Arts meets. MACL A169.

### Monday, May 20th.

VICTORIA DAY. University offices closed.

### Tuesday, May 21st.

TBA Board of Governors meets. 7:30 p.m. Software Engineering Education Co-operative Project and Dept. of Computer Science present Dr. Harlan D. Mills, IBM Corp. and University of Maryland, speaking on "Data Structured Programming: Program Design without Arrays and Pointers." CLER A207.

### Wednesday, May 22nd.

10:00 a.m. Faculty of Arts and Science meets. ELLI 167. 2:00 p.m. Senate meets. Senate & Board Room, University Centre.

### Thursday, May 23rd.

8:00 p.m. Podillya Folk Ensemble from the Ukraine. All tickets \$8. University Centre Auditorium.

### Friday, May 24th.

8:45 a.m. Keynote address for *Impact '85* to *Microcomputers in Education*. 10:15 a.m. University Centre Auditorium.

### Friday, May 31st.

10:00 a.m. *Spring Convocation*. Continues & until June 1. University Centre 2:00 p.m. Auditorium.

## Environmental Studies to carry on

The Environmental Studies Program at UVic has been assured of funding for 1985-86 and there exists a very large probability of funding for the following year, according to Dr. G.R. Walter, Acting Dean of Social Sciences.

Funding for the program for 1985-86 will come from non-recurring funds explains Walter who is chairman of a committee which will advise him on the appointment of a director of the Environmental Studies Program for a two-year term.

The term of current director Dr. Marcus Bell expires June 30, 1985.

Walter has asked those interested in the position to contact himself or the committee by today.